

**Children Road Safety Education
via Web**

By

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A project dissertation submitted in partial fulfilment of
the requirements for the
Bachelor of Technology (Hons)
(Business Information System)

MAY 2014

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CERTIFICATION OF APPROVAL

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Approved by,

(Mazlina Bt Mehat)

UNIVERSITI TEKNOLOGI PETRONAS

TRONOH, PERAK

May 2014

CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the references and acknowledgements, and that the original work contained herein have not been undertaken or done by unspecified sources or persons.

MOHAMAD NAZIRI FITRI BIN MOHD NASIR

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ABSTRACT

This research paper discuss on the awareness of road safety among school children. Parents nowadays are aware on the importance of having a safe environment for their children especially on road. Besides, government effort shows that road safety education needs to be started at the early age such as school children. The government put effort in educating children on road safety education. For example, Jabatan Keselamatan Jalan Raya did embark on an initiative with the Ministry of Education of Malaysia to educate primary school children via program called “Program Pendidikan Keselamatan Jalan Raya (PKJR)”. PKJR is a learning process with the elements of best practice on road safety such as the proper way to cross the road. Based on the problem that has been identified such as lack of awareness on road safety among children and also ineffective of the road safety campaign, some solutions are suggested to counter the problem. Research done to study on the level of awareness and the main objective of the study is to educate school children on the importance of road safety. Besides, it will contribute in providing interactive learning to PKJR syllabus. In this project, prototyping model is use to demonstrate the concept of the overall design option. There are a few phases in developing the prototype which are initial investigation, requirement definition, system design, coding and testing, implementation and maintenance. An education game will be developed using Adobe Flash and then upload to website for easy access. The concept of the game is ‘play and learn’ which can help in attaining the objective to educate school children on the importance to take care of the safety on road. The scores that achieved by the children will measure the effectiveness of their learning. As a conclusion, we hope that our effort to educate children will be achieved. But if the level of effectiveness remains low, we will identify the weakness and highlight it for future improvement.

CHAPTER 1

1.0 INTRODUCTION

1.1 Background of Study

Children safety should be the highest priority for every parent. Government is committed in enhancing the protection of children from any harm especially on road safety. A part from providing good road facilities to its citizen, Government of Malaysia have taken lots of steps to educate the citizens on road safety, not only adults but also school children. A number of road safety awareness programs; aimed at providing basic knowledge of road safety have been conducted nationwide. The government wants to educate and produce a civilized generation which also contribute towards the harmony of this country.

A program called “Program Pendidikan Keselamatan Jalan Raya (PKJR)” is a joint initiative between Jabatan Keselamatan Jalan Raya (JKJR) with the Ministry of Education of Malaysia; aims to educate primary school children on road safety. PKJR is a learning process with the elements of best practice on road safety such as the proper way to cross the road.

The best way to educate people is from the early age. As stated in Kementerian Pengangkutan Malaysia guideline, the scenario of the current accident rate is increasing among pedestrian age 5 to 12 years old. Children need to be monitored when they are on road. Road accidents may happen if they are not monitor by their parents or guardians because actively moving children have very low level of safety awareness especially when they are excited. For example, when they are trying to cross the road, they cannot identify the safe area to cross. Besides, due to their small size, they might not be noticeable by drivers. The increasing number of car on the road also led to the increasing of the number of road accident. One of the reasons of injury or death occurs during road accident is because of lack of road safety knowledge and the best practice to avoid road accident (Kementerian Pengangkutan Malaysia). Instead of the

effort by the government, it is also the responsibility of parents to take care of their children and educate them to be careful when they are on road. Both parents and their children need to understand the hazards on road and also practices good attitude when using road.

1.2 Problem Statements

With all the government efforts mentioned earlier, these are the current scenarios of road safety among our school children:

- Insufficiency of children understanding on abstract related to road safety although signboards, zebra-crossing and traffic lights are available.
- There is limited technology to educate the school children to support PKJR syllabus.

In order to improve the current scenario, children need to be educated well in terms of their understanding on abstract related to road safety and attitude on road. The road safety education in school can be enhanced by using an interactive style of learning. We would be able to utilize the current Information Communication Technology (ICT) to support PKJR syllabus and make it more interesting to the school children.

Children nowadays like to play computer games. A game could be a platform to educate children. As they play the game they will able to get some lesson learn. Children's mind can easily absorb new knowledge if they have their interest and focus during learning process. As a matter of fact, they can also enjoy the game and capture information that contains in the game so that they can make use of it as their best practice to keep safe on road.

1.3 Objectives and Scope of Study

The objectives of this project are:

- To educate primary school children on road safety.
- To provide an interactive learning in PKJR syllabus.

The target users for this system is school children aged between 7 years old to 12 years old which can make a useful of this game to improve their road safety knowledge. As mention earlier, children are highly exposed toward risk on road. When accidents happen, it can cause injury or in serious cases can cause of fatalities. Hence, education on road safety at early age should start. In addition, interactive learning also can contribute to shape children with better attitude on road.

1.4 Feasibility Study

This project must be able to accomplish within the limitation of time which is around 18 weeks duration including FYP1 and FYP2. Hardware and software available for this project is freely available. Costing is not major problems since most software for developments are available for free download. This project will deliver a website that includes an interactive learning for school children age between 7 to 12 years old. They will test the game as an interactive learning, and then the effectiveness of the learning can be measured by capturing the scores of the children from the game they play.

CHAPTER 2

2.0 LITERATURE REVIEW

2.1 Current Road Safety Situation in Malaysia

According to study by Institut Penyelidikan Keselamatan Jalan Raya Malaysia (MIROS), the numbers of road accident happen in Malaysia are rapidly increasing for a decade starting from year 1995 (see Figure 1). After several efforts by the federal government, including national road safety action plan, road safety campaign, numbers of accident had dropped a little bit but yet, tends to increase over the years. It shows that, the levels of awareness on road safety among Malaysian are still questionable. On the other hand, the effectiveness of the road safety campaign and also effort from government to educate people cannot be attained if they are not making use of their full effort to get people attention on the importance of road safety.

Tahun	Jumlah Penduduk	Kenderaan Berdaftar	Jumlah Kemalangan	Mangsa Kemalangan	Jumlah Kematian
1995	20,096,700	6,802,375	162,491	52,152	5,712
1996	21,169,000	7,686,684	189,109	53,475	6,304
1997	21,665,600	8,550,469	215,632	56,574	6,302
1998	22,179,500	9,141,357	211,037	55,704	5,740
1999	22,711,900	9,929,951	223,166	52,937	5,794
2000	23,263,600	10,598,804	250,429	50,200	6,035
2001	23,795,300	11,302,545	265,175	50,473	5,849
2002	24,526,500	12,068,144	279,711	49,552	5,891
2003	25,048,300	12,819,248	298,653	52,741	6,286
2004	25,580,000	13,828,889	326,815	54,091	6,228
2005	26,130,000	15,026,660	328,264	47,012	6,200
2006	26,640,000	15,790,732	341,252	35,425	6,287
2007	27,170,000	16,813,943	363,319	33,999	6,282
2008	27,730,000	17,971,901	373,071	32,274	6,527
2009	28,310,000	19,016,782	397,330	31,417	6,745
2010	28,910,000	20,188,565	414,421	28,269	6,872

Figure 1 Statistic of Road Accident in Malaysia

Source: MIROS (2013)

In Malaysia, road traffic injuries had become a serious problem since year 1995. According to a record by Pietro in year 2004, traffic accident was in a high rank in cause of death which rank 3rd among male citizen and 7th for female. Experts predict that the situation in Malaysia is set to become even worse. According to a recent study by Miros, road deaths in Malaysia is expected to increase to 8,760 cases in 2015, but the potential to reach 10,716 cases in 2020, meaning a total of 29 lives to become victims of road accidents every day in the year 2020.

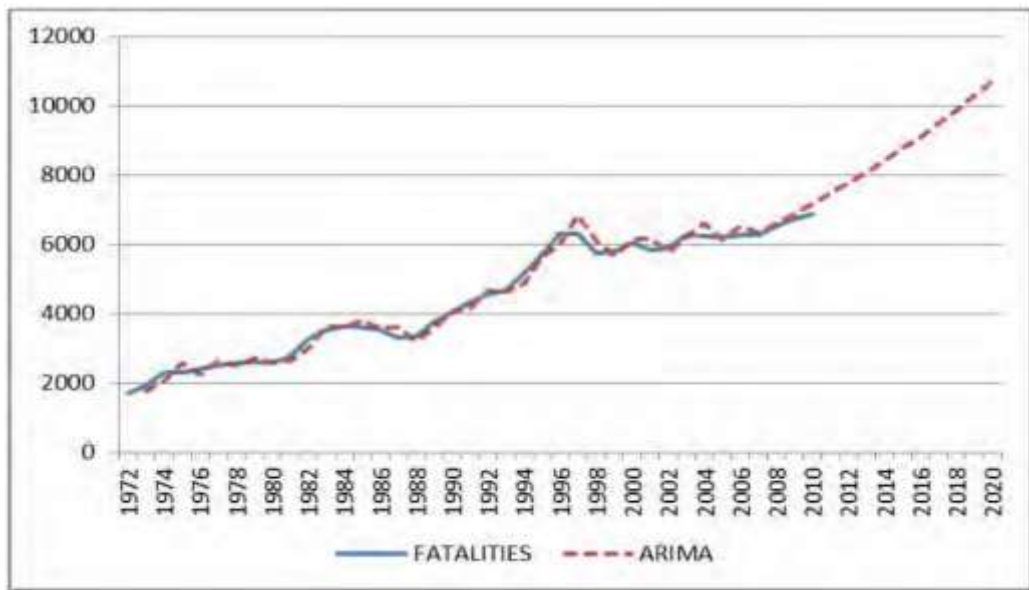


Figure 2 Road Accident Deaths Forecast

Source: MIROS

The Malaysian government is already aware on this situation. They have strategised an Action Plan which is also addressing 9 strategy of road safety issue to overcome the problem. Education is among the 9 strategy besides enforcement, engineering and environmental issue.

As a consequence of the government's action plan, road safety education was embedded in Bahasa Melayu in schools and has become a part of a syllabus for children to understand and learn.

2.2 Road Safety Education (RSE)

Pietro G. D. (2009) has stated that RSE will not be effective if the aim is to reduce the consequences of road accidents among children. On the other hand, the road safety education or any awareness program should not be too ambitious in setting up the objectives of the program. The important part is how to deliver the knowledge and it can be easily understood by the people.

Instead of the criticisms, Pietro G. D. (2009) has aligned some challenges on conducting RSE:

1. What if the children answer wrongly? Is the program a failure?
2. If the question is similar from the activity book learnt in class, how to evaluate their understanding?
3. What will happen if there are absences during the session?

Therefore, the evaluation of RSE should take these three evaluation studies into consideration according to (Pietro G. D., 2009):

1. RSE knowledge
2. Practice observation
3. Health outcome

In this research paper, knowledge flow from the RSE program can be measured by determining the target area, numbers of children taking part in the program and also the content of learning. The result can be positive if each child who participates actively during the program is able to absorb the knowledge on road safety and deliver their understanding through the game. Besides, negative result is not the end of the world but, some issues or problems need to be identified and taken as recommendation for future program.

Besides, there is a website named 3M Streetwise which implements the element of interactive learning on road safety education. 3M created this online resource for use with primary school pupils. This website is from United

Kingdom (UK) and the content was written by teachers with the help of the Department for Transport and Brake, the road safety charity.



Figure 3 3M Streetwise Website

Source: <http://www.3m.co.uk/intl/uk/3mstreetwise/pupils-streetwise-game.htm>

2.3 Injuries among children during road accident

A research done by Abdul Rahman, Mohd Zulkifli, Law, & Subramaniam (2005) has highlighted that injuries occur from road accidents occupied the third rank as cause of admission and fifth as the cause of death. In Malaysia, road traffic accident has become one of the main cause of injury and death among children and adolescents. Abdul Rahman et al (2005) has recorded injuries occur during accident among Malaysia citizens age 10-19 years old is in the highest rank based on national study in year 1996. This has become the main concern of the Government of Malaysia to overcome the situation. Mock, Quansah, Krischnan, Risa, & Rivara (2004) are on the same page as they has stated the agreement on the injury or death in a car crash is the main cause that occur among children and adult. In addition, Mock et al (2004), also align some actions that can be taken as a prevention of injury in road traffic accident. The safety measure includes roadway engineering techniques, speed control and changes of people's behavior on road. The behavior of road user can be altered

via safety campaign and education. Hence, vital steps need to be taken to guide the people behavior towards the improvement.

2.4 Road Safety Campaign

Abdullah, et al have come out with an approach to help in the alteration of people's behavior on road. They have developed a smart driving simulation using agent approach to train people to be a smart driver and people also can observe courtesy on road. This training by simulation aim to minimize driver's error on road which can cause accidents.

In fact, organisations have come out with the road safety campaign initiatives such as Petroliam Nasional Berhad (PETRONAS) with their road safety campaign called "PETRONAS StreetSmart" and SHELL Traffic Game. PETRONAS StreetSmart is one of PETRONAS activity under their corporate social responsibility (CSR) programme which started in 2001. Their objectives is to engage and educate the public especially school children, whilst addressing on road safety issues through focusing on science awareness and education. PETRONAS StreetSmart programme operated by Petrosains and it is consists of four main offerings namely the traveling exhibition, school programme, public programme and special programme.



Figure 4 PETRONAS Street Smart

Besides PETRONAS, there also government agencies such as JKJR, private sector such SHELL and Alliance Bank Berhad which also come out with road safety campaign. There are all with similar objective which is to educate and also promote public on road safety.

Meanwhile, road safety campaign should include the involvement of each individuals of society either children, teenagers or adult. On the other hand, road safety campaign should cater all individuals in a society. Musthar, Muda, Adji, & Karim (2013), have research done on the involvement in Malaysian road safety campaign for young adults. They have aligned the key aspects for road safety campaign which includes the initial level of awareness of the participant, feedbacks of participant and also the measurement of effectiveness of the campaign. Musthar et al (2013) listed some objectives that need to achieve during road safety campaign such as to study the people involvement in the road safety campaign, to investigate the level of awareness of people towards road safety campaign and also to evaluate the effectiveness of the campaign.

2.5 Future Road Safety Education

In a paper written by Raftery&Wundersitz, RSE defined as an integrated component which can contribute to improve the level of awareness regarding the road safety among young generation. The main point is to make sure that RSE in schools became a priority target to reduce risk or the consequences of injury or death among children during road accidents. On the other hand, it encounters the point from Pietro G. D. (2009). In addition to the priority, Raftery & Wundersitz highlight that, the RSE should make the knowledge of road safety sound and make sense. For example, the content should provide opportunity for future road safety campaign to learn from the success of failure of existing program. The priority still to reduce risk of injury or death among children. Means, if the existing program not works or ineffective, there are the opportunity to close the gaps that appear during the existing program, provided that the lesson learnt should be captured immediately and recovery phase should be executed.

CHAPTER 3

3.0 METHODOLOGY

3.1 System Development

The basic of system development is following the phases in System Development Life Cycle (SDLC). It includes planning, analysis, development and implementation. There are several models in SDLC such as Waterfall model, Prototyping, Spiral and Incremental. For this project, Prototyping model will be used in the development phase.

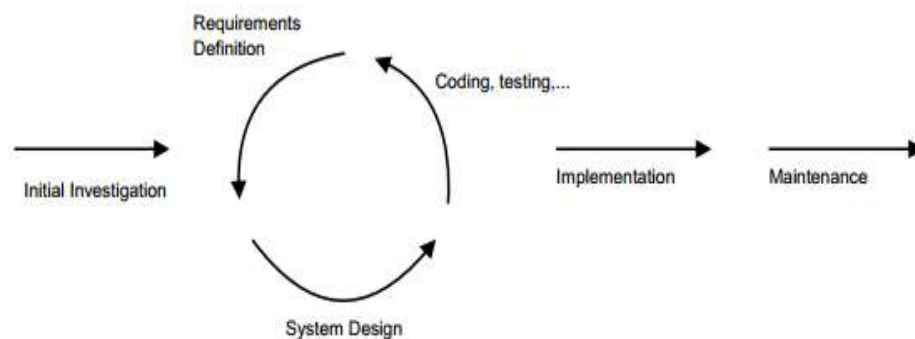


Figure 5 Prototyping Model

Source: SDLC Software Prototype Model

http://www.tutorialspoint.com/sdlc/sdlc_software_prototyping.htm

The uses of prototyping may help to:

1. Validate the requirement
2. Design process and exploring option
3. Design User Interface (UI)
4. Test the prototype

Hence, it can demonstrate the overall concept of the system and we will able to try out the design option.

3.2 Project Phases

3.2.1 Initial Investigation

Initially, objective of prototype will be defined at the first phase to set up goals and make sure that it align with the project objective. It is also a planning phase to have a clear path for the development phase later on. Thus, it helps in deliver this project according to the requirement.

3.2.2 Requirement Definition

Requirement of the prototype will be gather to define it well. The functionality will be listed out and make sure it is clear on how the portal will perform. This phase may include some design for UI and its options. The definition of each functionality will be outlined for development.

3.2.3 System Design

This is important phase because the development of prototype must follow the requirement. Besides, this phase is where the execution of the objective with the combination of functionality of the prototype. For this project, UI design will involve the interface of the website.

3.2.4 Coding and Testing

This phase is for development of the prototype based on the functionality. Evaluating prototype can be done by testing with the potential users to measure the functionality and the capability of the prototype. The deliverables will be an evaluation report and also the working prototype.

3.2.5 Implementation

If the prototype is working well and fulfill the requirement, then it is ready to be implement. In this case, the game that will be developed using flash will be uploaded to the website.

3.2.6 Maintenance

This phase is to ensure everything goes well and available for end user.

3.3 Tools Required

Several tools are needed to accomplish this project. Tools required include:

- Personal computers with Windows platform, 2 GB RAM (minimum), 50 GB hard-disk space that contains the operating system.
- Adobe Flash CS5 for design
- Wix.com for website development

3.4 Interview

In order to serve this project better, sharing experience with the expert may help to deliver this project. Interview session will be arranged with school teacher to get some knowledge on road safety education and how the learning process on road safety goes.

3.5 Survey and Questionnaire

This part also includes the testing of the prototype. The testing is targeted to be done in SK Permas Jaya (1) which is located in the sub-urban area which is also high in number of traffics besides most of the children exposed to hazard on road. They will play the game and the scores will be captured for measurement on the effectiveness of the interactive learning. Besides, feedback form has been distributed to the teacher and interview with the children has been done to get their feedback on the game.

3.6 Gantt chart

		Week													
No	Project Activities	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Selection of Project Title	█	█	█											
	Discussion with SV		█	█											
	Project Title Approval			█	█										
	Submission of Project Title				█										
2	Initial investigation				█	█									
3	Requirement definition						█	█	█	█					
4	Extended Proposal														
	Draft extended proposal				█	█									
	Review extended proposal with SV					█	█								
	Submission of extended proposal						█								
5	Proposal defense														
	Mock presentation								█	█					
	Presentation									█					
6	Project Development														
	Coding and testing										█	█	█		
7	Submission of Interim Report														
	Milestone		█												
	Process	█													

Figure 6: FYP I Gantt Chart

		Week													
No	Project Activities	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Progress Report														
	Draft progress report	█	█												
	Review progress report		█	█											
	Submission of progress report			█											
2	Project Development Phase 2														
	Coding and testing				█	█	█	█							
	User Acceptance Test (UAT)							█	█	█					
3	Pre SEDEX														
	Submission of progress report										█				
4	Update research paper														
	Consolidation of research paper				█	█	█	█							
5	Submission of technical report														
	Submission of technical report												█		
6	VIVA Presentation														
	VIVA Presentation													█	
	Milestone	█													
	Process	█													

Figure 7: FYP II Gantt chart

CHAPTER 4

4.0 RESULT AND DISCUSSION

4.1 Prototype Overview



Figure 8 Website Home Page

The language used for this website is in Bahasa Melayu since PKJR is embedded into Bahasa Melayu subject in school. The website contains 5 tabs including the home page. The main part of this road safety education via web is the road safety game in “permainan” tab.





Tab/Menu	Description
	<p>“Safe Journey to School” – Road safety education game for interactive learning. This game can support the PKJR learning in class.</p>
	<p>Video archive for school children references. They may gain some knowledge while watching video. The videos are on road safety such as how to cross the road and also tip on road safety.</p>
	<p>School children can read this road safety info for additional knowledge. For example, the info shares on road safety in school.</p>
	<p>This tab link to other website related to road safety. For example, it links to JKJR website which also can enable school teacher to get updates from JKR on road safety campaign and others.</p>

Table 1 Website Menu

4.2 Road Safety Game



Figure 9 “Safe Journey to School” Game

This section discuss on the overview of the prototype for road safety game. Author named this road safety game as “Safe Journey to School”. Children are familiar with the television program like “Dora the explorer” and “Go Diego go”. So the game was developed based on that television program.

In this game, user will be given a situation. They need to walk to school following to the map given.



Figure 10 Game Map

During their journey to school, they need to walk pass several check points. In each check points, there are question for them to answer. Each of questions is following the guideline and syllabus from the PKJR. Below are some of the examples on the question appearing in each checkpoint.



Figure 11 Question I



Figure 12 Question II



Figure 13 Question III

Question I, II and II is basically for children to understand the colours and the meaning of each colours of the traffic light. Moving on to the next question (see Figure 13) is where the children can under the signboard which is some abstract on the road.



Figure 14 Question IV

For question V and VI, children need to identify the elements in road safety. For example in Figure 14, the question asks on which picture put the safety precaution.



Figure 15 Question V

Last question (see Figure 15) also enable the children to understand on which way to choose for crossing the road.



Figure 16 Question IV

To add some excitement in this game, there is a puzzle for the children to solve at the last check point (see Figure 16).



Figure 17 Puzzle

In PKJR syllabus, it is stated that children need to be able to cross the road safely. So, at the end of this game, children are given tips on crossing the road (see Figure 17, 18 & 19)



Figure 18 Tips on crossing road I



Figure 19 Tips on crossing road II



Figure 20 Tips on crossing road III

Marks will be recorded once they answer correctly. For wrong answer, they need to try again and search for correct answer but, the marks will be deducted. This process will enable user to learn although they make mistake by answering question wrongly.



Figure 21 Marks at the end of game

4.3 System Evaluation

There are 3 stages of testing which has been done throughout the project. There are:

1. Unit Testing
2. System Testing
3. User Acceptance Testing

4.3.1 Unit Testing

In unit testing, only the road safety game has been tested since it is the only core component in the website. The game has been developed using Adobe Flash CS 5. The game has been tested in terms of its functionality, content and also the game scene. The results of the unit testing are tabulated in table below:

Testing/Result	Pass	Fail	Remarks
Game Scene:			
Appear correctly	/		
Suitable Character	/		
Answer checking	/		
Marks shown after game	/		
Game sound	/		
Game content:			
Following PKJR syllabus	/		
Easily understood	/		
Game language	/		

Table 2 Unit testing result

4.3.2 System Testing

System testing is done for the website because the website development is done in an integrated unit using Wix.com as the tool for website development. The testing has been done to check for the functionality of each component in each page such as button and link page.

Testing/Result	Pass	Fail	Remarks
Menu buttons functions correctly	/		
Buttons link to page	/		
Link page to other website	/		
Flash game functions after uploading to the website	/		Frame size need to be adjusted accordingly for better view
Video link can be viewed	/		
Website content	/		

Table 3 System testing result

4.3.3 User Acceptance Testing (UAT)

UAT has been done in SK Permas Jaya 1, Johor Bahru with 30 children from class 2 Bijak. The testing is done to introduce the school children with the road safety education website and also to measure the effectiveness of the interactive learning which is the road safety game.

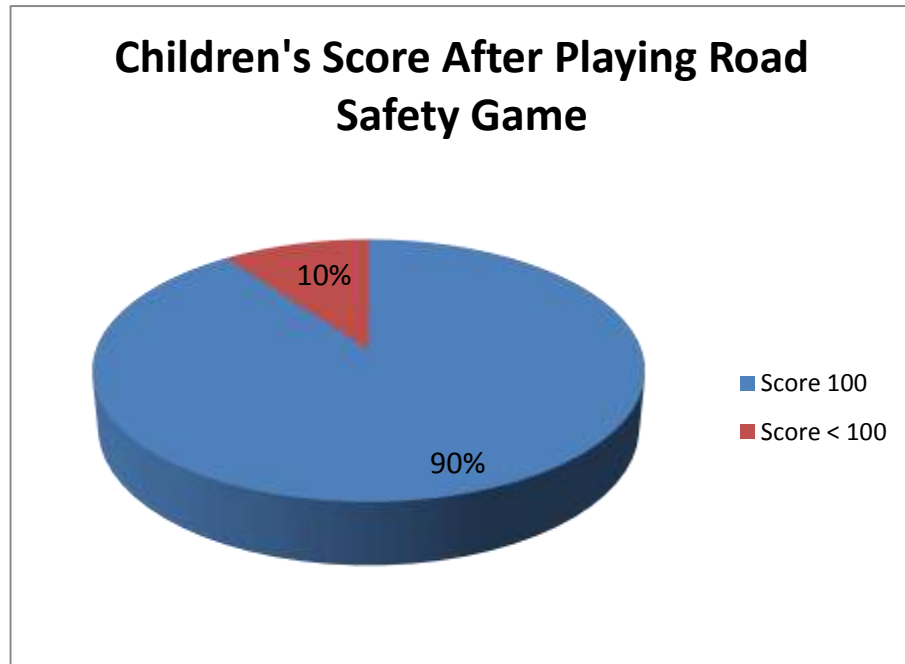


Figure 22 Children's Score

The scores have been recorded after the children play game. Full marks or 100 scores indicated that children successfully enjoy their interactive learning. They learnt and understand based on the syllabus of PKJR while playing games. Only 3 people which contributed 10% of 30 children not able to scores full mark because of careless mistake and they have not read carefully the question and not following the instruction given.

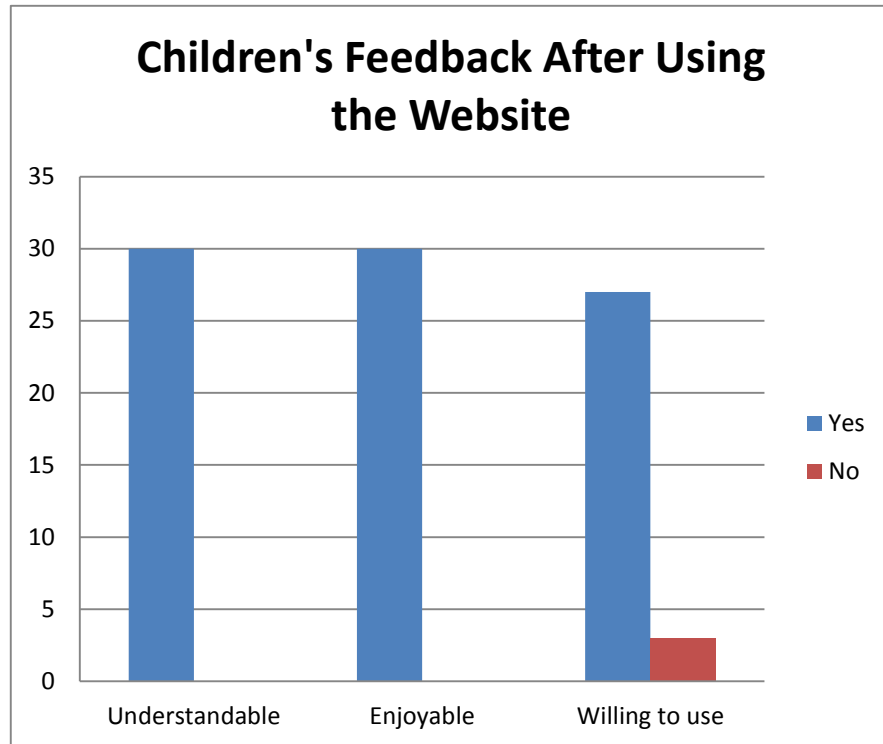


Figure 23 Children's Feedback result

Feedback from the children is recorded by asking them question in terms of their understanding of the game, interesting of the game and the possibility of having this kind of interactive learning for the other syllabus in PKJR. All of the school children agreed that the content of the interactive learning is understandable and comprehensive for them. They enjoyed play with the game and learn something from it. Most of them hope that more interactive learning will support their learning process, but some of the children prefer to learn from their teacher.

Teacher's Feedback

"The content of the program are clearly defined. All students enjoy playing the interactive game which can help them to gain some basic knowledge about road safety. The graphics of the game are colorful and creative which makes the student love to play and learn on road safety."

- Sharulniza Ab Hajis, Teacher, SK Permas Jaya 1 -

Figure 24 Teacher's feedback

CHAPTER 5

5.0 CONCLUSION AND RECOMMENDATION

To produce a better product regarding to this project, several recommendations to be made regarding this project. Recommendations are not meant to be used to change this project wholly, but to allow improvements in certain aspects and to put some factors into considerations before proceeding with the development of the software.

The game should be aligned with the syllabus of PKJR to make sure that the learning objective of PKJR can be obtained through this initiative. The technical area for this project mainly focus on two things, the website and also the games that will be developed using Adobe Flash. Hence, at the end of the development phase, minor error such as unidentified image on the website still can be accepted and causing us to do minor adjustment. By having satisfied of the overall requirement, this project has been successfully delivered and tested on the effectiveness of interactive learning towards the primary school children. Besides, it is showing a positive result, this method of learning can be implemented to the PKJR syllabus in the future.

For future works, interactive learning on road safety education can be enhanced through development of android games. Besides, this website should be maintain and also expand on the content and knowledge inside it for a better learning. More flash games also can be uploaded into this website so that the interactive learning will have more varieties. To utilize the game as an interactive learning, a game can be developed which has several difficulties to cover all syllabuses in PKJR. The effectiveness of interactive learning can be measured by a comparison on the differences between interactive learning and the normal learning process.

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APPENDICES

APPENDIX 1 VERIFICATION LETTER FOR UAT



UNIVERSITI
TEKNOLOGI
PETRONAS

To Whom It May Concern,

I am would like to verify that MOHAMAD NAZIRI FITRI BIN MOHD NASIR, IC: 920405-01-6249, is a student of Universiti Teknologi PETRONAS (UTP) and currently doing his Final Year Project under my supervision. It is very much appreciated if your organization could support his effort by giving your utmost cooperation towards completing his project entitled "Children Road Safety Education via Web".

Should you have any inquiry, please do not hesitate to contact me at +6053687496 or email me at mazlinamehat@petronas.com.my.

Thank you for your time and consideration.

Yours Sincerely,

Mazlina binti Mehat

Lecturer,

Department of Computer & Information Sciences,

Faculty of Sciences & Information Technology,

Universiti Teknologi PETRONAS.

15/1/14
EN. JEFFRI BIN TAIB
OPK, PETANG
SK PERMAS JAYA I
81750 MASAI, JOHOR BAHRU



APPENDIX 2 TEACHER'S FEEDBACK FORM PAGE 1

Teacher's Review & Feedback Form

Date: 15/07/2014

Teacher's name: SHARULNIZA BINTI AB HAJIQ

Instruction: Circle the number to indicate your rating with the statement listed below.

1) The objectives of the program are clearly defined. (1 = poor - 5 = excellent)

1 2 3 4 (5)

2) What is your overall assessment of the program? (1 = poor - 5 = excellent)

1 2 3 4 (5)

3) Do you think that the interactive game can contribute in the road safety education?

(Yes) No

If no, why?

4) The content is relevant and easy for children to understand. (1 = poor - 5 = excellent)

1 2 3 4 (5)

5) The content is following the syllabus of Pendidikan Keselamatan Jalan Raya (PKJR). (1 = poor - 5 = excellent)

1 2 3 4 (5)

APPENDIX 3 TEACHER'S FEEDBACK FORM PAGE 2

6) Quality of the website and the road safety game. (1 = poor - 5 = excellent)

1 2 3 4 ⑤

7) Comments and suggestions (including activities or initiatives you think would be useful, for the future)

The content of the program are clearly defined. All pupils enjoy playing the interactive game which can help them to gain some basic knowledge about road safety. The graphics of the game are colourful and creative which make pupils love to play the game and learn about children road safety.

I hereby confirmed that user testing on the Children Road Safety Education via web has been done in SK Permas Jaya 1.


(SHARULNIZA BT AB HAJIC)




15/7/19
EN. JEFFRI BIN TAIB
GPK/PETANG
SK PERMAS JAYA 1
81750 MASAL, JOHOR BAHRU

-THANK YOU-

APPENDIX 4 CHILDREN'S FEEDBACK FORM

Children Feedback Form

Question	S1		S2		S3		S4		S5		S6		S7		S8		S9		S10		S11		S12		S13		S14		S15			
	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N		
Do you learn something from the portal and interactive game?	/		/		/		/		/		/		/		/		/		/		/		/		/		/		/		/	
Does the road safety game is interesting?	/		/		/		/		/		/		/		/		/		/		/		/		/		/		/		/	
Do you want this interactive game to support the learning of PKJR in class?	/		/		/		/		/		/		/		/		/		/		/		/		/		/		/		/	

Question	S16		S17		S18		S19		S20		S21		S22		S23		S24		S25		S26		S27		S28		S29		S30			
	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N		
Do you learn something from the portal and interactive game?	/		/		/		/		/		/		/		/		/		/		/		/		/		/		/		/	
Does the road safety game is interesting?	/		/		/		/		/		/		/		/		/		/		/		/		/		/		/		/	
Do you want this interactive game to support the learning of PKJR in class?	/		/		/		/		/		/		/		/		/		/		/		/		/		/		/		/	

APPENDIX 5 CHILDREN'S SCORE

SENARAI NAMA KELAS 2 BUAK (2014)

NAMA GURU :

PERKARA :

BIL	NAMA	NO. KP	JAN						
1	ARASY HABRI BIN SAIFUDDIN	060225-01-1179	L	100					
2	DANISH SYAHIR BIN YAZID	060222-01-2109	L	///					
3	JEEVANATH A/L HARI	061029-01-1571	L	100					
4	MOHAMAD INDRA PUTRA BIN MOHD YAZID	060524-01-0213	L	100					
5	MUHAMMAD ALIFF RAFFEEZY BIN KAMALSHAM	060804-01-0023	L	100					
6	MUHAMMAD ARIF MIRZA BIN AZRIZAL	061226-01-0439	L	100					
7	MUHAMMAD ASYRAAF BIN HASBULLAH	061030-01-0533	L	100					
8	MUHAMMAD EAZIQ DANISH BIN ROHAIZAD	060715-01-0603	L	///					
9	MUHAMMAD HAFIY DANISH BIN MAHPORD	060308-01-1131	L	100					
10	MUHAMMAD HAFIZ HAKIM BIN ROSLI	061105-01-0117	L	100					
11	MUHAMMAD IRFAN BIN HENISZAL	060607-08-0129	L	///					
12	MUHAMMAD IZZAT ILYAS BIN SHAHRUL FADZLEE	060821-01-1503	L	100					
13	MUHAMMAD NABIL BIN MUHAMAD IZAM	061130-12-1169	L	100					
14	MUHAMMAD RAEES BIN MOHD RIZAL	060727-01-1267	L	100					
15	MUHAMMAD SHAH PUTRA BIN NOOR AZLAN	060827-01-0157	L	86					
16	MUHAMMAD SYED ISKANDAR BIN MOHD HARIOL AZMI	060303-01-0367	L	///					
17	PREM A/L A SREEDHARAN	060119-01-1271	L	75					
18	SYED MUHAMMAD HAZIQ BIN SYED JAMALULIL	060715-01-0953	L	///					
19	AMIRA SYAHADA BINTI ABDUL AZIZ	060819-01-1352	P	100					
20	ANIES SOFEA	061224-01-1630	P	100					
21	FARAH NURRAIHAN BINTI MOHAMMAD RIZAN	060829-01-0302	P	100					
22	INTAN NURSAFIYAH BINTI JEFFERY	061117-01-0050	P	100					
23	NUR ADRIANA ELLYSSA BINTI MOHD IZWAN	061120-01-0844	P	100					
24	NUR AJINA BALQIS BINTI MD ZAIN	060302-01-0496	P	///					
25	NUR ALLYSA ADRIANA BINTI MD YUSRI	060619-01-0646	P	100					
26	NUR ARIFAH BINTI ASRI	060824-01-1752	P	100					
27	NUR ATIRAH HUMAIRA BINTI MOHD IRRWAN	060415-01-0994	P	100					
28	NUR FARIZ NATASYA BINTI MOHD FIRDAUS	060622-01-0604	P	100					
29	NUR KHAIRAH BINTI HUSSAIN	061103-01-0404	P	///					
30	NUR NISA KHAIRINA BINTI MD FAHMI	060305-01-0758	P	100					
31	NUR UMAIRAH HUSNA BINTI KAMARNOH	060726-01-1126	P	100					
32	NUR YASMIN ATIKAH BINTI MOHD FADZIL	060308-01-0462	P	100					
33	NURSYAZNISA ADLINA BINTI SURADI	060608-01-1782	P	100					
34	ROSSA ILYASA BINTI SHAHRI	060303-01-0914	P	75					
35	SHALINI A/P SURESH	060228-01-1668	P	100					
36	SITI MASTURA BINTI MUSLIM	061010-01-0296	P	100					
37	SITI NUR AIDA BINTI MAHAMAD ZAHARI	061128-02-0414	P	100					

APPENDIX 6 UAT SESSION IN SK PERMAS JAYA (1)



APPENDIX 7 NEWS ON ACCIDENTS

Nasional Artikel Wilayah Luar Negara Hiburan Sukan Bisnes Pendidikan Sains Rekreasi Gaya Hidup

Terkini Berita Utama Dalam Negeri Politik Pertimpunan UMNO Parlimen Jenayah Mahkamah Laporan Khas

EPAPER

Utusan Malaysia

JENAYAH

ARKIB : 28/09/2013

Statistik kemalangan meningkat

Oen MOHD. FAIRUZ YUSOF
fairuz.yusof@utusan.com.my

KUANTAN 27 Sept. - Polis Diraja Malaysia (PDRM) mengambil keputusan mengadakan operasi bersepadu secara berterusan terhadap kenderaan berat berikutan meningkatnya kes kemalangan membabitkan kenderaan itu di seluruh negara pada tahun lalu.

Ketua Trafik Pasukan Ibu Pejabat Polis Bukit Aman, Datuk Abdul Aziz Yusof berkata, statistik menunjukkan jumlah kemalangan membabitkan kenderaan berat meningkat sebanyak 2,491 kes sepanjang tahun lalu.

Sehubungan itu, ujemnya, PDRM mengambil keputusan meneruskan operasi yang dijalankan bersama Suruhanjaya Pengangkutan Awam Darat (SPAD) dan Jabatan Pengangkutan Jalan (JPJ) itu secara berterusan pada masa hadapan.

"Jumlah pengguna jalan raya yang maut membabitkan kemalangan dengan kenderaan berat ialah 1,241 orang manakala pemandu lori pula 176 orang pada tahun lalu," katanya ketika ditemui dalam operasi bersepadu di kawasan Perindustrian Gebeng di sini hari ini.

Waktu solat Kuala Lumpur
Subuh 5:52
Zohor 1:22
Asar 4:43
Maghrib 7:30
Isyakh 8:42

Klik untuk waktu solat kawasan lain

Dengar SuniaFM
Radio SuniaFM Menceritakan Dunia

PRK Bukit Gelugor
Utusan Lue di PRK Parlimen Bukit Gelugor

PRK Teluk Intan
Utusan Lue di PRK Parlimen Teluk Intan

Riau Rio Brazil 2014
Laman web mikro bola sepak Piala Dunia 2014

Tragedi Pesawat MH370
Utusan Lue lapor kehilangan pesawat MH370

KE7B Greenland 2014
Laporan Ekspedisi KE7B Greenland Malaysia 2014

KOMUNITI

Waktu Solat

Laporan Cuaca

BERITA

Berita Utama

Dalam Negeri

Wilayah

Laporan Khas

Parlimen

IKLAN@UTUSAN

RUANG IKLAN UNTUK DISEWA

www.utusan.com.my/Jom_Iklan

4. Pemandu van sekolah maut dalam kemalangan

Pemandu van sekolah maut dalam kemalangan. KEADAAN van sekolah dan kereta Proton Wira yang terbabit dalam kemalangan di Jalan Bukit Idaman, Selayang dekat Gombak, Selangor semalam. GOMBAK - Rutin harian seorang pemandu van wanita menghantar pelajar ke sekolah berakhir semalam apabila van sekolah yang dipa
kosmo/Negara - 26/02/2014

5. Dua adik-beradik maut dalam perjalanan ke sekolah

Dua adik-beradik maut dalam perjalanan ke sekolah 24/02/2014 10:33pm. Keadaan kereta Proton Perdana yang merempuh motosikal dinaiki dua beradik dalam kemalangan di sini hari ini. - KOSMO!ROSMIZANKUALA KRAI - Dua adik-beradik yang merupakan pelajar Sekolah Menengah Kebangsaan Lahoh di sini maut selepas motosikal yang di
kosmo/Terkini - 24/02/2014

APPENDIX 8 ROAD ACCIDENTS OCCUR AMONG CHILDREN

Kertas kajian penyelidikan 2011 yang dijalankan oleh Institut Penyelidikan Keselamatan Jalan Raya ("MIROS") mendapati kematian tertinggi (18.5%) dalam kemalangan jalan raya yang melibatkan pejalan kaki yang berlaku di kawasan sekolah adalah kanak-kanak yang berumur di antara 10-14 tahun dan diikuti oleh golongan umur antara 5-9 tahun (16.5%) dan umur antara 15-18 tahun (16.1%).

Kajian ini juga mendapati bahawa kanak-kanak pembonceng motosikal adalah kumpulan ketiga utama berkaitan kematian trafik di kalangan kanak-kanak yang berumur antara 1 - 4 tahun, 5 - 9 tahun dan 10 - 14 tahun.



Kanak-kanak Maut Ketika Melintas

SEDANGTUT, 5 Ggas - "Kalahlah dia tidak bersendiran" itulah kata-kata sedih Chee Chee Sing ayah kepada Chee Siew Ming. Pembantu jenabul tidak kanak-kanak yang tertunuh ketika cuba melintas jalan raya yang sibuk di Jalan Muzi. Malapetaka yang berlaku semasa dia menyeberang jalan. Pembantu jenabul Muthu memberitahunya bahawa ayahnya berhadapan dengan kematian. "Dalam sekelip mata, Siew Ming kehilangan diri", kata

APPENDIX 9 ROAD SAFETY CAMPAIGN



ALL NEW
HONDA CITY ...
MYR74,000
[View](#)



Toyota Vellfire
2.4 ZG Full H...
MYR186,900
[View](#)



ALL NE
HONDA CI
MYR87,
[View](#)

DUNIA PENDIDIKAN

- Forum
- Berita Semasa
- Berita Sekolah
- Malaysia
- Sains dan Teknologi
- Berita Pusat Sains

Kempen keselamatan jalan raya di sekolah

05 Sep 2013, 02:32 PM | [Aktiviti](#)

ALLIANZ Malaysia mengadakan kempen advokasi keselamatan jalan raya sekolah rendah untuk kali kedua di Sekolah Kebangsaan (SK) Taman Dato Harun 1, Daerah Petaling, Selangor baru-baru ini.

Pengurus Wilayah, Allianz General Insurance Company (Malaysia) Berhad, Kok Tak Weng berkata, sekolah adalah antara tumpuan tahun ini sebagai tambahan kepada kempen advokasi keselamatan jalan raya diadakan dengan kerjasama Jabatan Keselamatan Jalan Raya (JKJR) sejak Julai 2011.



APPENDIX 10 ROAD SAFETY CAMPAIGN



MALAYSIA
Change Location

- Environment & Society
- Society
- Social Investment programmes in Malaysia
- Sustainable Development Grants
- Shell Traffic Games
- Nature Education Centre
- Shell-Earthwatch Partnership
- Health, Safety and Environment workshops for engineers
- Environmental education programme

You are here: Shell Malaysia Home > Environment & Society > Society > Social Investment programmes in Malaysia > Shell Traffic Games

Shell Traffic Games

A major educational tool in road safety awareness for the young in Malaysia, the Shell Traffic Games represent our commitment towards the safety of road users particularly those in schools for over five decades.

Launched in 1957, the Shell Traffic Games, is held annually in partnership with the Road Safety Council (Majlis Keselamatan Jalan Raya) and various government agencies like the police, education departments, road transport department and local authorities as well as auxiliary bodies.

Held in most state capitals and practically every district and division in Sabah and Sarawak, the games are conducted on a specially equipped site in a safe location using pedal cars, bicycles and pedestrians. More than a million young Malaysian road users have taken part in the games since its inception.

As part of the programme, participating schools are required to pass written tests on road safety. In subsequent practical or on-road tests, participants are awarded merit points for complying with road safety regulations, or conversely given demerits and issued traffic violation summons by real traffic police officers when they break road safety regulations or commit driving offences. Prizes are awarded to winning primary and secondary schools for the best road safety performance.





Jalan Cermat, Jiwa Selamat

Pusat Latihan Insurans Am Malaysia
M. I. I. Insurans
Dialok

Ingatlah bahawa keselamatan adalah tanggungjawab bersama. Kita semua bertanggungjawab untuk memastikan keselamatan diri kita dan orang lain.

Keputusan yang bijak dan tindakan yang tepat dapat menyelamatkan nyawa.

Peraturan lalu lintas adalah peraturan yang ditetapkan untuk memastikan keselamatan semua pengguna jalan raya.

1. Berhenti di tepi jalan dan tunggu kereta keselamatan datang.
2. Jika kereta keselamatan datang, jangan lari dan jangan berlari ke arah kereta.
3. Berhenti di tepi jalan dan tunggu kereta keselamatan datang.
4. Jika kereta keselamatan datang, jangan lari dan jangan berlari ke arah kereta.



PETRONAS

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Street Smart
LESSONS FOR LIFE

APPENDIX 11 WEBSITE CODING

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="X-UA-Compatible" content="IE=Edge"/>
<!--
Important Note About This Website's SEO
Find the SEO content of this site's homepage via
http://skpermasjaya1.wix.com/pkjr?_escaped_fragment_=
(That is where search engines like Google go to read your homepage's content.)
To view the SEO content of your internal pages, such as "Info Keselamatan Jalan Raya", go here:
http://skpermasjaya1.wix.com/pkjr?_escaped_fragment_=info-keselamatan-jalan-roya/c18y7
(That is where search engines like Google go to read the content on your internal pages.)
For more information about Ajax Crawling technology, read Google's explanation here:
https://developers.google.com/webmasters/ajax-crawling/
-->
<meta charset="utf-8"/>
<title>Pendidikan Keselamatan Jalan Raya</title>
<meta name="fb_admins_meta_tag" content=""/>
<meta name="keywords" content="PKJR"/>
<link rel="shortcut icon" href="http://www.wix.com/favicon.ico" type="image/png"/>
<link rel="apple-touch-icon" href="http://www.wix.com/favicon.ico" type="image/png"/>
<link rel="canonical" href="http://skpermasjaya1.wix.com/pkjr"/>
<meta http-equiv="X-Wix-Renderer-Server" content="app11.tam"/>
<meta http-equiv="X-Wix-Meta-Site-Id" content="e42f5a4a-b6d9-4e33-8429-8e60a01a13a8"/>
<meta http-equiv="X-Wix-Application-Instance-Id" content="83771fee-2181-4dcb-8e56-7ca2acf04178"/>
<meta http-equiv="X-Wix-Published-Version" content="42"/>
<meta http-equiv="etag" content="4bb653439b3d1cd7cfb881f059348f01"/>
<meta property="og:title" content="Pendidikan Keselamatan Jalan Raya"/>
<meta property="og:type" content="article"/>
<meta property="og:url" content="http://skpermasjaya1.wix.com/pkjr"/>
<meta property="og:site_name" content="Pendidikan Keselamatan Jalan Raya"/>
<meta name="SKYPE_TOOLBAR" content="SKYPE_TOOLBAR_PARSER_COMPATIBLE"/>
<meta id="wixMobileViewport" name="viewport" content="minimum-scale=0.25, maximum-scale=1.2"/>
<script
type="text/javascript">(window.NREUM||(NREUM={})).loader_config={xpid:"VgUDU15ACQoG
V1NUDg==";window.NREUM||(NREUM={}),__nr_require=function(t,e,n){function
r(n){if(!e[n]){var o=e[n]={exports:{}};t[n][0].call(o.exports,function(e){var o=t[n][1][e];return
r(o?o:e)},o,o.exports)}return e[n].exports}if("function"===typeof __nr_require)return
__nr_require;for(var o=0;o<n.length;o++)r(n[o]);return r}({1:[function(t,e){function
n(t,e,n){n||(n={});for(var r=o[t],a=r&&r.length||0,s=n[i]||(n[i]={}),u=0;a>u;u++)r[u].apply(s,e);return
s}function r(t,e){var n=o[t]||(o[t]=[]);n.push(e)}var o={},i="nr@context";e.exports={on:r,emit:n},{},2:[function(t){function e(t,e,n,i,s){return u?u-
=1:r("err",[s|new UncaughtException(t,e,n))],"function"===typeof
a?a.apply(this,o(arguments)):!1}function UncaughtException(t,e,n){this.message=t||"Uncaught error
```



```

with no additional information",this.sourceURL=e,this.line=n}function n(t){r("err",[t,(new
Date).getTime()])}var
r=t("handle"),o=t(6),i=t(5),a=window.onerror,s=!1,u=0;t("loader").features.push("err"),window.onerr
or=e,NREUM.noticeError=n;try{throw new Error}catch(d){"stack"ind&&t(1),t(2),"addEventListener"in
window&&t(3),window.XMLHttpRequest&&XMLHttpRequest.prototype&&XMLHttpRequest.pro
totype.addEventListener&&t(4),s=!0})i.on("fn-start",function(){s&&(u+=1)}),i.on("fn-
err",function(t,e,r){s&&(this.thrown=!0,n(r))}),i.on("fn-
end",function(){s&&!this.thrown&&u>0&&(u=1)}),i.on("internal-
error",function(t){r("ierr",[t,(new
Date).getTime(),!0]}),{1:5,2:4,3:3,4:6,5:1,6:14,handle:"D5DuLP",loader:"G9z0B1"}},3:[function(t
){function e(t){r.inPlace(t,["addEventListener","removeEventListener"],"-",n)}function n(t){return
t[1]}var r=t(1),o=t(3),t(2);if(e(window),"getPrototypeOf"in Object){for(var
i=document;i&&!i.hasOwnProperty("addEventListener");i)=Object.getPrototypeOf(i);i&&e(i);for(v
ar
a=XMLHttpRequest.prototype;a&&!a.hasOwnProperty("addEventListener");a)=Object.getPrototype
Of(a);a&&e(a)}else
XMLHttpRequest.prototype.hasOwnProperty("addEventListener")&&e(XMLHttpRequest.prototype
);o.on("addEventListener-start",function(t){if(t[1]){var e=t[1];"function"===typeof
e?this.wrapped=e["nr@wrapped"]?t[1]=e["nr@wrapped"]:e["nr@wrapped"]=t[1]=r(e,"fn-
"):e["nr@wrapped"]===typeof e.handleEvent&&r.inPlace(e,["handleEvent"],"fn-
")}},o.on("removeEventListener-start",function(t){var
e=this.wrapped;e&&(t[1]=e)}),{1:15,2:1,3:14}],4:[function(t){var
e=(t(3),t(1)),n=t(2);e.inPlace(window,["requestAnimationFrame","mozRequestAnimationFrame","w
ebkitRequestAnimationFrame","msRequestAnimationFrame"],"raf-"),n.on("raf-
start",function(t){t[0]=e(t[0],"fn-")}),{1:15,2:1,3:14}],5:[function(t){function
e(t){var e=t[0];"string"===typeof e&&(e=new Function(e)),t[0]=n(e,"fn-")}var
n=(t(3),t(1)),r=t(2);n.inPlace(window,["setTimeout","setInterval","setImmediate"],"setTimer-
"),r.on("setTimer-start",e),{1:15,2:1,3:14}],6:[function(t){function
e(){o.inPlace(this,s,"fn-")}function n(t,e){o.inPlace(e,["onreadystatechange"],"fn-")}function
r(t,e){return e}var o=t(1),i=t(2),a=window.XMLHttpRequest,s=["onload","onerror","onabort","onloadstart","onloadend
","onprogress","ontimeout"];window.XMLHttpRequest=function(t){var n=new a(t);try{i.emit("new-
xhr",[n],n),o.inPlace(n,["addEventListener","removeEventListener"],"-",function(t,e){return
e}),n.addEventListener("readystatechange",e,!1)}catch(r){try{i.emit("internal-
error",r)}catch(s){}}return
n},window.XMLHttpRequest.prototype=a.prototype,o.inPlace(XMLHttpRequest.prototype,["open","
send"],"-xhr-",r),i.on("send-xhr-start",n),i.on("open-xhr-start",n)},{1:15,2:1}],7:[function(t){function
e(){function e(t){if("string"===typeof t&&t.length)return t.length;if("object"!==typeof t)return void
0;if("undefined"!==typeof ArrayBuffer&&t instanceof ArrayBuffer&&t.byteLength)return
t.byteLength;if("undefined"!==typeof Blob&&t instanceof Blob&&t.size)return
t.size;if("undefined"!==typeof FormData&&t instanceof FormData)return void 0;try{return
JSON.stringify(t).length}catch(e){return void 0}}function n(t){var
n=this.params,r=this.metrics;if(!this.ended){this.ended=!0;for(var
i=0;u>i;i++)t.removeEventListener(s[i],this.listener,!1);if(!n.aborted){if(r.duration=(new
Date).getTime()-this.startTime,4===t.readyState){n.status=t.status;var
a=t.responseType,d="arraybuffer"===a||"blob"===a||"json"===a?t.response:t.responseText,f=e(d);if(
f&&(r.rxSize=f),this.sameOrigin){var c=t.getResponseHeader("X-NewRelic-App-
Data");c&&(n.cat=c.split(" ").pop())}}else
n.status=0;r.cbTime=this.cbTime,o("xhr",[n,r])}}function
r(t,e){var n=i(e),r=t.params;r.host=n.hostname+": "+n.port,r.pathname=n.pathname,t.sameOrigin=n.sameOrigin
}t("loader").features.push("xhr");var
o=t("handle"),i=t(1),a=t(5),s=["load","error","abort","timeout"],u=s.length,d=t(2);t(3),t(4),a.on("new
-
xhr",function(){this.totalCbs=0,this.called=0,this.cbTime=0,this.end=n,this.ended=!1,this.xhrGuids=
{}},a.on("open-xhr-
start",function(t){this.params={method:t[0]},r(this,t[1]),this.metrics={}),a.on("open-xhr-
end",function(t,e){"loader_config"in NREUM&&"xpid"in
NREUM.loader_config&&this.sameOrigin&&e.setRequestHeader("X-NewRelic-
ID",NREUM.loader_config.xpid)}),a.on("send-xhr-start",function(t,n){var

```

```

r=this.metrics,o=t[0],i=this;if(r&&o){var d=e(o);d&&(r.txSize=d)}this.startTime=(new
Date).getTime(),this.listener=function(t){try{"abort"===t.type&&(i.params.aborted=!0),("load"!==t.
type||i.called===i.totalCbs&&(i.onloadCalled||"function"!==typeof
n.onload))&&i.end(n)}catch(e){try{a.emit("internal-error",e)}catch(r){}}};for(var
f=0;u>f;f++)n.addEventListener(s[f],this.listener,!1)),a.on("xhr-cb-
time",function(t,e,n){this.cbTime+=t,e?this.onloadCalled=!0:this.called+=1,this.called!==this.totalC
bs||this.onloadCalled&&"function"===typeof n.onload||this.end(n)),a.on("xhr-load-
added",function(t,e){var
n=""+d(t)+!e;this.xhrGuids&&!this.xhrGuids[n]&&(this.xhrGuids[n]=!0,this.totalCbs+=1)),a.on("
xhr-load-removed",function(t,e){var n=""+d(t)+!e;this.xhrGuids&&this.xhrGuids[n]&&(delete
this.xhrGuids[n],this.totalCbs-=1)),a.on("addEventListener-end",function(t,e){e
instanceof
XMLHttpRequest&&"load"===t[0]&&a.emit("xhr-load-
added",[t[1],t[2]],e)),a.on("removeEventListener-end",function(t,e){e
instanceof
XMLHttpRequest&&"load"===t[0]&&a.emit("xhr-load-removed",[t[1],t[2]],e)),a.on("fn-
start",function(t,e,n){e
instanceof
XMLHttpRequest&&("onload"===n&&(this.onload=!0),("load"===t[0]&&t[0].type)||this.onload)
&&(this.xhrCbStart=(new
Date).getTime()))),a.on("fn-
end",function(t,e){this.xhrCbStart&&a.emit("xhr-cb-time",[new
Date).getTime()-
this.xhrCbStart,this.onload,e,e)}))window.XMLHttpRequest&&XMLHttpRequest.prototype&&X
MLHttpRequest.prototype.addEventListener&&!/CriOS/.test(navigator.userAgent)&&e(),{1:8,2:11
,3:4,4:6,5:1,handle:"D5DuLP",loader:"G9z0B1"}},8:[function(t,e){e.exports=function(t){var
e=document.createElement("a"),n=window.location,r={};e.href=t,r.port=e.port;var
o=e.href.split("://");return!r.port&&o[1]&&(r.port=o[1].split("/")[0].split(":")[1]),r.port&&"0"!
=r.p
ort||r.port="https"===o[0]?"443":"80",r.hostname=e.hostname||n.hostname,r.pathname=e.pathname
,"/"!==r.pathname.charAt(0)&&(r.pathname="/" +r.pathname),r.sameOrigin=!e.hostname||e.hostname
===document.domain&&e.port===n.port&&e.protocol===n.protocol,r},{},handle:[function(t,e){e
.exports=t("D5DuLP")},{},D5DuLP:[function(t,e){function
n(t,e){var n=r[t];return
n?n.apply(this,e):(o[t]||o[t]=[]),void o[t].push(e)}var
r={},o={};e.exports=n,n.queues=o,n.handlers=r},{},11:[function(t,e){function
n(t){if(!t||"object"!==typeof t&&"function"!==typeof t)return-1;if(t===window)return
0;if(o.call(t,"__nr"))return t.__nr;try{return
Object.defineProperty(t,"__nr",{value:r,writable:!0,enumerable:!1}),r}catch(e){return
t.__nr=r,r}finally{r+=1}}var
r=1,o=Object.prototype.hasOwnProperty;e.exports=n},{},loader:[function(t,e){e.exports=t("G9z0B1
"),{}},G9z0B1:[function(t,e){function
n(o){var
t=p.info=NREUM.info;if(t&&t.agent&&t.licenseKey&&t.applicationID&&u&&u.body){p.proto="h
ttps"===c.split(":")[0]||t.sslForHttp?"https://":"http://",a("mark",["onload",i]);var
e=u.createElement("script");e.src=p.proto+t.agent,u.body.appendChild(e)}function
r(o){"complete"===u.readyState&&o()}function
o(a("mark",["domContent",i]))}function
i(o){return(new
Date).getTime()}var
a=t("handle"),s=window,u=s.document,d="addEventListener",f="attachEvent",c="" +location).split(
"")[0],p=e.exports={offset:i,origin:c,features:[]},u[d]?u[d]("DOMContentLoaded",o,!1),s[d]("loa
d",n,!1):(u[f]("onreadystatechange",r),s[f]("onload",n)),a("mark",["firstbyte",i])),{handle:"D5DuL
P"}},14:[function(t,e){function
n(t,e,n){e||(e=0),"undefined"===typeof n&&(n=t?t.length:0);for(var
r=-1,o=n-e||0,i=Array(0>o?0:o);++r<o;i[r]=t[e+r];return
i}e.exports=n},{},15:[function(t,e){function
n(t,e,r,s){function
nrWrapper(){try{var
n,a=u(arguments),d=this,f=r&&r(a,d)}catch(c){i([c,"",[a,d,s],f])}o(e+"start",[a,d,s],f);try{return
n=t.apply(d,a)}catch(p){throw
o(e+"err",[a,d,p],f),p}finally{o(e+"end",[a,d,n],f)}return
a(t)?t:(e||e=="",nrWrapper[n.flag]=!0,nrWrapper)}function
r(t,e,r,o){r||(r="");var i,s,u,d="-
"===r.charAt(0);for(u=0;u<e.length;u++)s=e[u],i=t[s],a(i)|(t[s]=n(i,d?s+r:r,o,s,t))}function
o(t,e,n){try{s.emit(t,e,n)}catch(r){i([r,t,e,n])}}function
i(t){try{s.emit("internal-
error",t)}catch(e){}}function
a(t){return!(t&&"function"===typeof t&&t.apply&&!t[n.flag])}var
s=t(1),u=t(2);e.exports=n,n.inPlace=r,n.flag="nr@wrapper",{1:1,2:14}},{},["G9z0B1",2,7]);</scri
pt>

```

<!-- META DATA -->

<script type="text/javascript">

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var rendererModel =
{"debugMode":"nodebug","previewMode":false,"serviceMappings":{"2":{"idInMetaSite":2,"idInAp

```

```

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8e60a01a13a8","premiumFeatures":[],"siteId":"83771fee-2181-4dcb-8e56-
7ca2acf04178","userId":"88722738-6a6a-4397-ac60-
a95ec1ee2120","published":true,"revision":42,"applicationType":"HtmlWeb","documentType":"UG
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Raya","clientSpecMap":{"13":{"type":"sitemembers","applicationId":13,"collectionType":"Open","s
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1,"appDefinitionId":"e4c4a4fb-673d-493a-9ef1-661fa3823ad7","datastoreId":"137b80d7-6005-c85b-
92fe-33e580dbf363","packageName":"menu","state":"Initialized","widgets":{"1660c5f3-b183-4e6c-
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27639412a3f8","state":"Initialized"},"14":{"type":"wixapps","applicationId":14,"appDefinitionId":"
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d375d62101e6":{"widgetId":"31c0cede-09db-4ec7-b760-
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"languageCode":"en","scriptsCacheKiller":1,"siteMetaData":{"preloader":{"enabled":true},"hasMob
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e,"addressEnabled":false,"socialLinksEnabled":false}}},"contactInfo":{"companyName":"","phone":
"","fax":"","email":"","address":""},"geo":"MYS"};

var publicModel =
{"externalBaseUrl":"http://skpermasjaya1.wix.com/pkjr","domain":"wix.com","premiumFeatures":[]

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,"language":"en","favicon":"","suppressTrackingCookies":false,"pageList":{"masterPage":{"http://static.parastorage.com/sites/887227_c34d6b65cf1c4b3106d9dd2bdad5cdc8_41.json.z?v=2","http://static.wixstatic.com/sites/887227_c34d6b65cf1c4b3106d9dd2bdad5cdc8_41.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_c34d6b65cf1c4b3106d9dd2bdad5cdc8_41.json"},"pages":[{"pageId":"c18y7","title":"Info Keselamatan Jalan Raya","urls":{"http://static.parastorage.com/sites/887227_39e285a1c2f43fd1d04bf7bc058224ec_35.json.z?v=2","http://static.wixstatic.com/sites/887227_39e285a1c2f43fd1d04bf7bc058224ec_35.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_39e285a1c2f43fd1d04bf7bc058224ec_35.json"}},{"pageId":"c7nj","title":"Pautan","urls":{"http://static.parastorage.com/sites/887227_b8a7fe3465c807c199d03b37f0cd9af8_41.json.z?v=2","http://static.wixstatic.com/sites/887227_b8a7fe3465c807c199d03b37f0cd9af8_41.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_b8a7fe3465c807c199d03b37f0cd9af8_41.json"}},{"pageId":"cee5","title":"Arkib Video","urls":{"http://static.parastorage.com/sites/887227_c80640179fbaec2ed94163e4585609f0_35.json.z?v=2","http://static.wixstatic.com/sites/887227_c80640179fbaec2ed94163e4585609f0_35.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_c80640179fbaec2ed94163e4585609f0_35.json"}},{"pageId":"c1x0s","title":"Tips Keselamatan Jalan Raya Di Sekolah","urls":{"http://static.parastorage.com/sites/887227_3f09e2d33576d11142e5795608ed11f3_39.json.z?v=2","http://static.wixstatic.com/sites/887227_3f09e2d33576d11142e5795608ed11f3_39.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_3f09e2d33576d11142e5795608ed11f3_39.json"}},{"pageId":"c9jg9","title":"Pemainan","urls":{"http://static.parastorage.com/sites/887227_05585ef253f1a2774e618799d5d2a96c_42.json.z?v=2","http://static.wixstatic.com/sites/887227_05585ef253f1a2774e618799d5d2a96c_42.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_05585ef253f1a2774e618799d5d2a96c_42.json"}},{"pageId":"mainPage","title":"Laman Utama","urls":{"http://static.parastorage.com/sites/887227_539033fdf6fe96b7f9655828a82ed70f_41.json.z?v=2","http://static.wixstatic.com/sites/887227_539033fdf6fe96b7f9655828a82ed70f_41.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_539033fdf6fe96b7f9655828a82ed70f_41.json"}},{"pageId":"c16ej","title":"Kandungan PKJR","urls":{"http://static.parastorage.com/sites/887227_b40a81da7ec02063fb4638326a16de24_39.json.z?v=2","http://static.wixstatic.com/sites/887227_b40a81da7ec02063fb4638326a16de24_39.json.z?v=2","http://fallback.wix.com/wix-html-editor-pages-webapp/page/887227_b40a81da7ec02063fb4638326a16de24_39.json"}},{"mainPageId":"mainPage"},"siteRevision":42,"timeSincePublish":2852412889,"adaptiveMobileOn":true};

var serviceTopology =
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var siteHeader = {"id":"83771fee-2181-4dcb-8e56-7ca2acf04178","userId":"88722738-6a6a-4397-ac60-a95ec1ee2120"};
var siteId = siteHeader.id;
var configUrls = serviceTopology;
var debugMode = "nodebug";
var viewMode = (rendererModel.previewMode) ? 'preview' : 'site';
var googleAnalytics = ""
;
</script>
<meta name="fragment" content="!"/>
<!-- DATA -->
<script type="text/javascript">
var adData = {"topLabel":"<span class=\"smallMusa\">(Wix-Logo) </span>Create a <span class=\"smallLogo\">Wix</span> site!","topContent":"100s of templates<br />No coding needed<br /><span class=\"emphasis spacer\">Start now >></span>","footerLabel":"<div class=\"adFootBox\"><div class=\"siteBanner\" ><div class=\"siteBanner\"><div class=\"wrapper\"><div class=\"bigMusa\">(Wix Logo)</div><div class=\"txt shd\" style=\"color:#fff\">This site was created using </div> <div class=\"txt shd\"><a href=\"http://www.wix.com?utm_campaign=vir_wixad_live\" style=\"color:#fff\"> WIX.com.</a></div> <div class=\"txt shd\" style=\"color:#fff\"> Create your own for FREE <span class=\"emphasis\">>></span></div></div></div></div></div>","adUrl":"http://www.wix.com/lpviral/en900viral?utm_campaign=vir_wixad_live"};
var mobileAdData = {"footerLabel":"7c3dbd_67131d7bd570478689be752141d4e28a.jpg","adUrl":"http://www.wix.com/"};
var usersDomain = "https://users.wix.com//wix-users";
</script>
<script src="http://static.parastorage.com/services/wix-users/2.411.0/client/js/userApi_v2.js?cacheKiller=1"></script>
<script src="http://static.parastorage.com/services/wix-users/2.411.0/user-api/user-api.min.js?cacheKiller=1"></script>
<script type="text/javascript">
var userApi = UserApi.getInstance().init({
"usersDomain":"http://users.wix.com//wix-users",
"corsEnabled":false,
"dontHandShake":true,
"urlThatUserRedirectedFrom":"$"});

```

```

});
UserServerApi.setOptions({
  "usersDomain":"http://users.wix.com//wix-users",
  "urlParams": { "urlThatUserRedirectedFrom" : "$" }
});
</script>
</head>
<body>
<link rel="stylesheet" type="text/css"
href="http://static.parastorage.com/services/web/2.1022.2/css/wysiwyg/preloader.css">
<div id="viewer_preloader">
<p>Loading</p>
<h2></h2>
<div id="preloader"></div>
</div>
<script type="text/javascript"
src="http://static.parastorage.com/services/core/2.1022.2/javascript/core/utills/mobile_utills.js"></scri
pt>
<script type="text/javascript"
src="http://static.parastorage.com/services/web/2.1022.2/javascript/wysiwyg/viewer/preloader.js"></
script>
<!-- debug mode=nodebug -->
<!-- anc2 -->
<script type="text/javascript">
var anchors = { };
</script>
<script
src="http://static.parastorage.com/services/bootstrap/2.1022.2/javascript/bootstrap.min.js"></script>
<script src="http://static.parastorage.com/services/web/2.1022.2/deployviewer.min.js"></script>

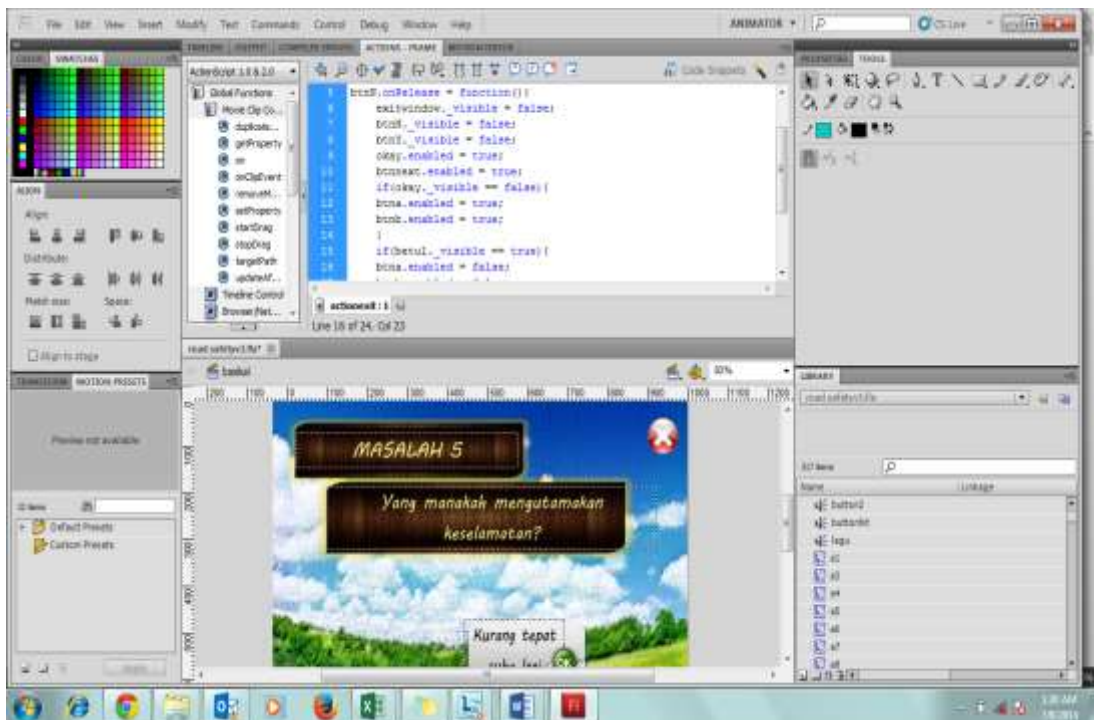
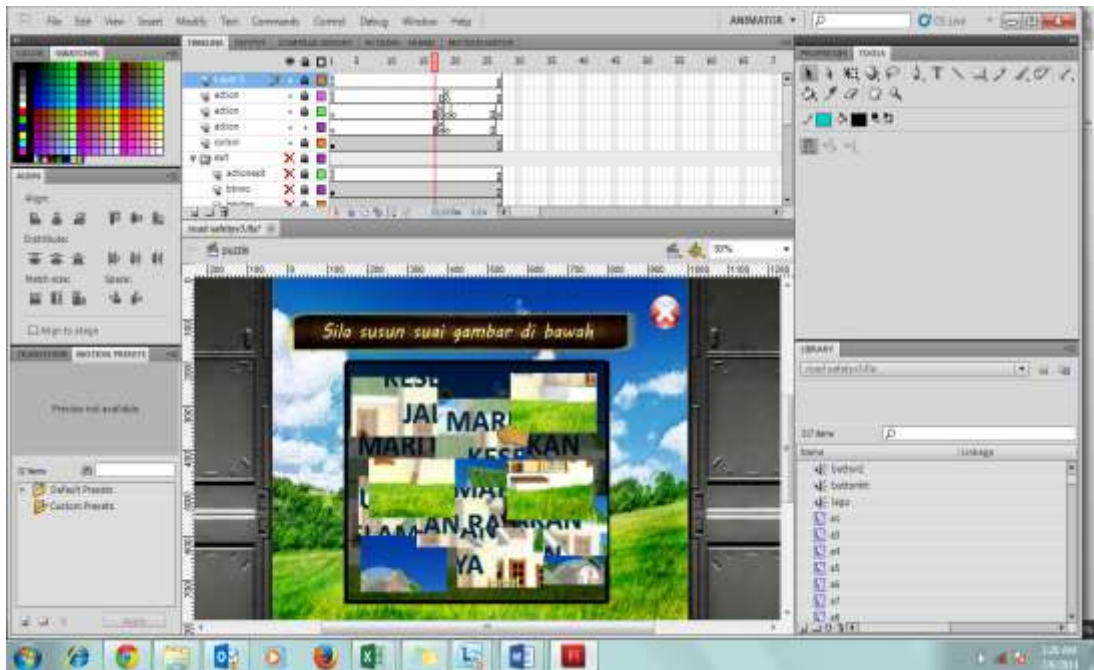
<div comp="wysiwyg.viewer.components.WixAds"
skin="wysiwyg.viewer.skins.wixadsskins.WixAdsWebSkin" id="wixFooter"></div>

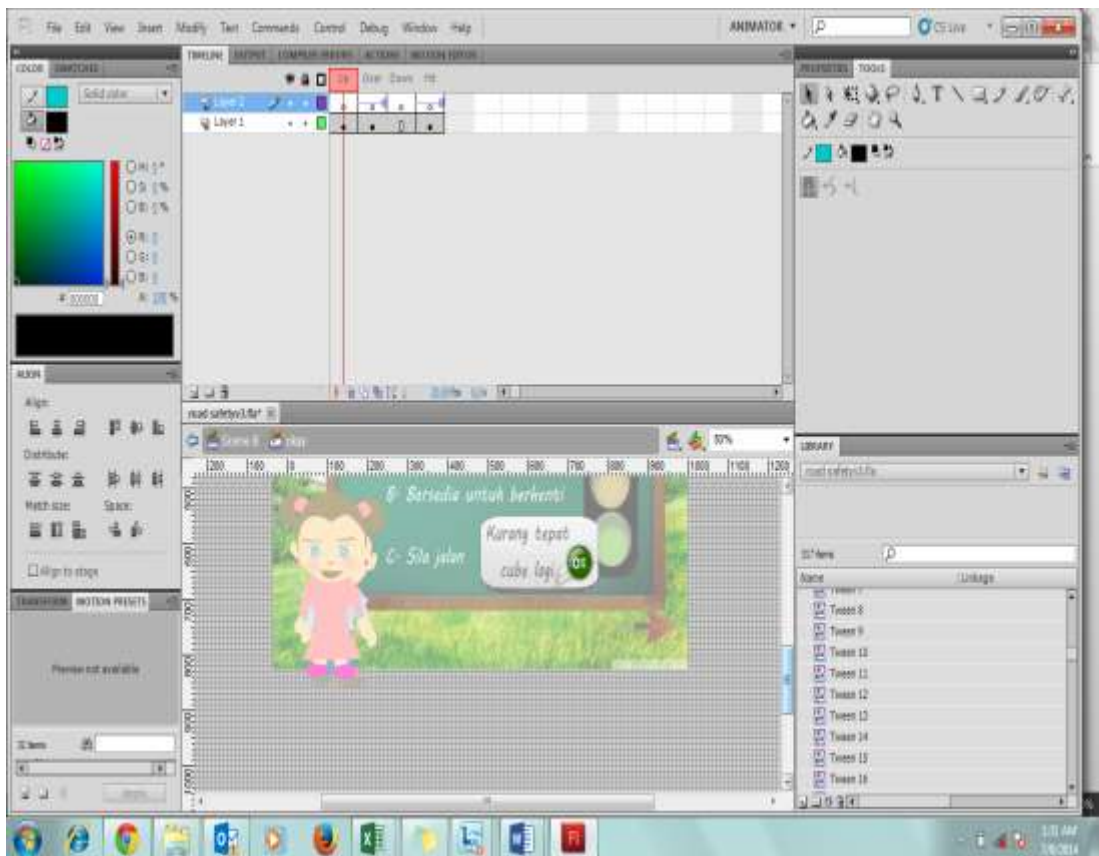
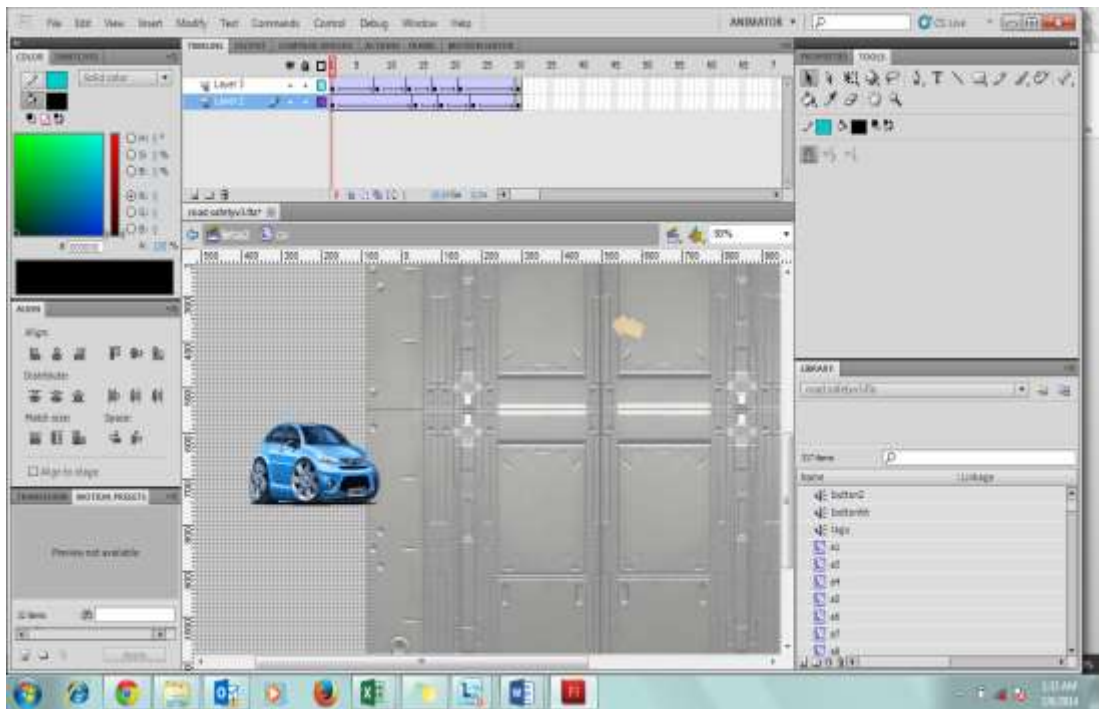
<script>
window.define && define.resource('status.structure.loaded', true);
</script>

<script
type="text/javascript">window.NREUM||(NREUM={});NREUM.info={"applicationID":"1963269,2
256455","applicationTime":13,"beacon":"beacon-
6.newrelic.com","queueTime":0,"licenseKey":"c99d7f1ab0","transactionName":"ZFAHNkNYXUB
QVEUKXF0aKDRyFmRWU39FDI9hUAsGVEtWQR9FVA1XVkc=","agent":"js-
agent.newrelic.com/nr-411.min.js","errorBeacon":"bam.nr-data.net"}</script>
</body>
</html>

```

APPENDIX 12 FLASH GAME DEVELOPMENTS (SCREENSHOTS)





APPENDIX 13 ANIMATIONS FOR BUTTON

